Name: September 11, 2017

Pre-Calculus Worksheet

1. In a certain math class of 28 students, 10 of them play basketball, and 18 of them play baseball. There are three students who play both. Mr. Cardenas selects a student at random. Determine the following probability of picking a student that plays:
   1. P(basketball and baseball)
   2. P(only basketball)
2. Michael selects a card at random from a standard deck of 52 cards. Determine the following probability:
   1. P(Jack and a red card)
   2. P(a black ace)
   3. P(numerical card bigger than 7 and red)
   4. P(diamond and black card)
   5. P(a black face card)
3. In a freshman class of 100 students, 42 play on a sport team, 34 participate in the school musical, and 6 participate in both. A student is selected at random. Determine the probability that this student:
   1. P(participates in both activities)
   2. P(participates in the school musical only)
   3. P(student does not participate in either one)

Homework:

1. In a certain Algebra 2 class of 34students, 12 of them play basketball and 17 of them play baseball. There are 5 students who play both sports. What is the probability that a student chosen randomly from the class plays both basketball and baseball? Construct a venn diagram.

